AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS

1. (currently amended) A band-gap reference circuit, comprising:

a band-gap reference unit;

a buffer circuit electronically coupled with said band-gap reference unit; and

a voltage pull-up device electronically coupled between and located intermediate to said

band-gap reference unit and said buffer circuit, wherein said voltage pull-up device acts to

reduce a required supply voltage to maintain a band-gap reference voltage and wherein said

voltage pull-up device is implemented as a transistor with a VBE of less than 1.0 volts.

2. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said

band-gap reference circuit resides in an integrated circuit device.

3. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said

band-gap reference circuit is implemented in a silicon substrate.

4. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said

buffer circuit is implemented as a transistor.

5. (cancelled)

6. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said

band gap reference voltage is provided by current through a transistor with a VBE of less than 1.0

volts.

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7. (currently amended) An electronic device, comprising:

a silicon substrate;

electronic circuitry constructed in said silicon substrate; and

a band-gap reference circuit comprising a band gap reference unit, a buffer circuit, and a voltage pull-up device electronically coupled in said electronic device, wherein said electronic circuitry requires reference to the output voltage of said band-gap reference circuit and said band-gap reference circuit is enabled for low impedance by said a buffer circuit, wherein said buffer circuit comprises a transistor with a VBE of less than 1.0 volts, and wherein said voltage pull-up device is coupled between and located intermediate to said band-gap reference unit and said buffer circuit.

8. (original) An electronic device as described in Claim 7, wherein said electronic device is an integrated circuit device.

- 9. (cancelled)
- 10. (cancelled)
- 11. (previously presented) An electronic device as described in Claim 7, wherein said transistor with a VBE of less than 1.0 volts is connected as an emitter follower.
- 12. (original) An electronic device as described in Claim 7, wherein said band-gap reference circuit is enabled for low supply voltage.
- 13. An electronic device as described in Claim 12, wherein said band-gap reference circuit is enabled for said low supply voltage by a voltage pull-up device.

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14. (Cancelled)

15. (previously presented) An electronic device as described in Claim 13, wherein said band

gap reference voltage is provided by current through a transistor with a VBE of less than 1.0

volts.

16. (currently amended) In an electronic device, a method for providing a reference voltage,

comprising:

flowing current through an electronic element such that the band-gap voltage of said

electronic element provides said reference voltage;

providing a buffer circuit and a band gap voltage reference unit coupled to said

buffer circuit; and

adjusting the voltage across said buffer circuit, by use of a voltage pull-up device

coupled between and located intermediate to said buffer circuit and said band gap voltage

reference unit, so that said band-gap reference voltage is maintained, wherein said

voltage across said buffer circuit is a VBE of less than 1.0 volts.

17. (original) A method as described in Claim 16, wherein said electronic device is an

integrated circuit device.

18. (original) A method as described in Claim 16, wherein said buffer circuit is implemented

as a transistor circuit.

19. (original) A method as described in Claim 18, wherein said transistor circuit is connected

as an emitter follower.

20. (original) A method as described in Claim 16, wherein said band-gap reference circuit is

enabled for low supply voltage.

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- 21. (previously presented) A method as described in Claim 20, wherein said band-gap reference circuit is enabled for said low supply voltage by a voltage pull-up device coupled between said buffer circuit and a band gap reference unit.
- 22. (cancelled)
- 23. (previously presented) A method as described in Claim 21, wherein said band gap reference voltage is provided by current through a transistor with a VBE of less than 1.0 volts.

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